



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 146809

TO: Andrew D Kosar
Location: REM/3C04/3C18
Art Unit: 1654
Wednesday, March 16, 2005
Case Serial Number: 10/777179

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1A69
Phone: 571-272-2518

BOB
barbara.obryen@uspto.gov

Search Notes

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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Andrew D. Kosar Examiner#: 80341 Date: 3/4/05Art Unit: 1654 Phone Number: (571)272-0913 Serial Number: 10/777,179Mail Box and Bldg/Room Location: **Mail: REM 3c18** Results Format Preferred (circle): **Paper** Disk E-mail
Office: **REM 3c04****If more than one search is submitted, please prioritize searches in order of need.**

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: BASIC AMINO ACID DERIVATIVESInventors (please provide full names): Hanabusa, Kenji; Suzuki, MasahiroEarliest Priority Filing Date: US 2/13/04 ; 04/28/2003 japan

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the following:

See the attached product claim.

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TECH/STIC
(STIC)

STAFF USE ONLY

Searcher: mlb
Searcher Phone: _____
Searcher Location: _____
Date Searcher Picked Up: 3-16-05
Date Completed: 3-16-05
Searcher Prep & Review Time: 20
Clerical Prep Time: _____
Online Time: 7

Type of search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) 1
Bibliographic _____
Litigation _____
Full Text _____
Patent Family _____
Other _____

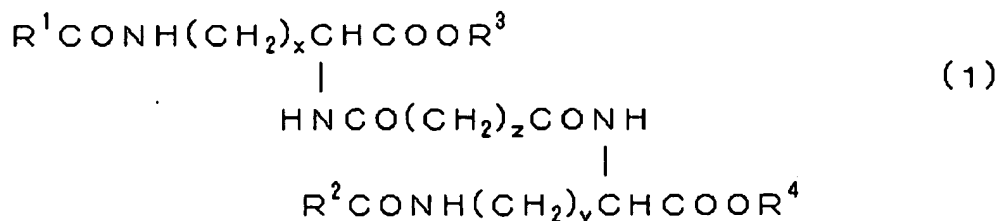
Vendors and cost where applicable

STN 239
Dialog _____
Questel/Orbit _____
Dr. Link _____
Lexis/Nexis _____
Sequence System _____
WWW/Internet _____
Other (specify) _____

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AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): A basic amino acid derivative represented by the following formula (1)- (1) or a salt thereof:



~~(In the formula,~~ wherein R^1 and R^2 each independently is a straight-chain or branched-chain alkyl or alkenyl group having 5 to 21 carbon atoms,

R^3 and R^4 each independently is an alkyl or alkenyl group having 1 to 22 carbon atom(s), hydrogen atom, alkaline metal or alkaline earth metal ~~in which,~~ wherein the alkyl or alkenyl group may be either in straight-chain or branched-chain or may have a cyclic structure,

z is an integer of 0 or more and

x and y each is an integer of 2 to 4- 4.

~~Claim 2 (Currently Amended): The basic amino acid derivative according to claim 1, wherein z in the above formula (1) is ranges from 0 to 10.~~

~~Claim 3 (Currently Amended): The basic amino acid according to claim 1, wherein z in the above formula (1) is 0.~~

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=> fil reg; d stat que 13

FILE 'REGISTRY' ENTERED AT 12:03:29 ON 16 MAR 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2005 HIGHEST RN 845699-17-4

DICTIONARY FILE UPDATES: 15 MAR 2005 HIGHEST RN 845699-17-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

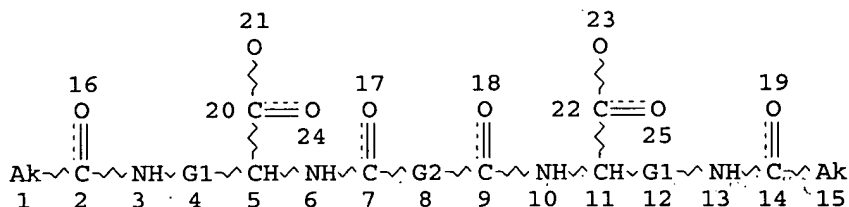
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

L1 STR



REP G1=(2-4) CH2

REP G2=(0-20) CH2

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1

CONNECT IS E1 RC AT 15

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M5-X21 C AT 1

ECOUNT IS M5-X21 C AT 15

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L3 26 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 344396 ITERATIONS

SEARCH TIME: 00.00.26

26 ANSWERS

=> fil capl uspatf casrea; s 13

FILE 'CAPLUS' ENTERED AT 12:03:39 ON 16 MAR 2005

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FILE 'USPATFULL' ENTERED AT 12:03:39 ON 16 MAR 2005
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FILE 'CASREACT' ENTERED AT 12:03:39 ON 16 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

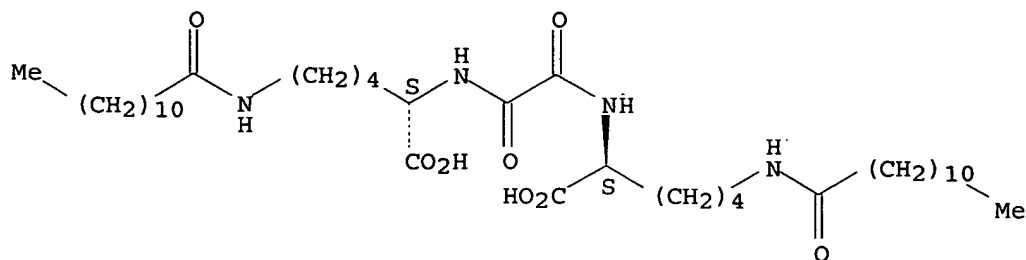
L6 5 L3

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PROCESSING COMPLETED FOR L6
L7 4 DUP REM L6 (1 DUPLICATE REMOVED)
ANSWERS '1-3' FROM FILE CAPLUS
ANSWER '4' FROM FILE USPATFULL

=> d ibib ed abs hitstr 1-4; fil hom

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2003:627026 CAPLUS
DOCUMENT NUMBER: 139:337687
TITLE: New gemini organogelators linked by oxalyl amide:
organogel formation and their thermal stabilities
AUTHOR(S): Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko;
Kimura, Mutsumi; Shirai, Hirofusa; Hanabusa, Kenji
CORPORATE SOURCE: Graduate School of Science and Technology, Shinshu
University, Ueda, Nagano, 386-8567, Japan
SOURCE: Tetrahedron Letters (2003), 44(36), 6841-6843
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:337687
ED Entered STN: 15 Aug 2003
AB New gemini organogelators linked by an oxalyl amide that can be easily,
effectively, and cheaply synthesized have good organogelation abilities
and their cyclohexane gels have superior thermal stabilities; especially 7
possessing the branched alkyl ester can gel at 0.7 wt% cyclohexane even at
70°C.
IT 615584-80-0P 615584-81-1P 615584-82-2P
615584-83-3P 615584-84-4P 615584-85-5P
615584-86-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(NMR and FT-IR on gelation of prepared gemini oxalyl-amide linked
organogelators)
RN 615584-80-0 CAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)- (9CI)
(CA INDEX NAME)

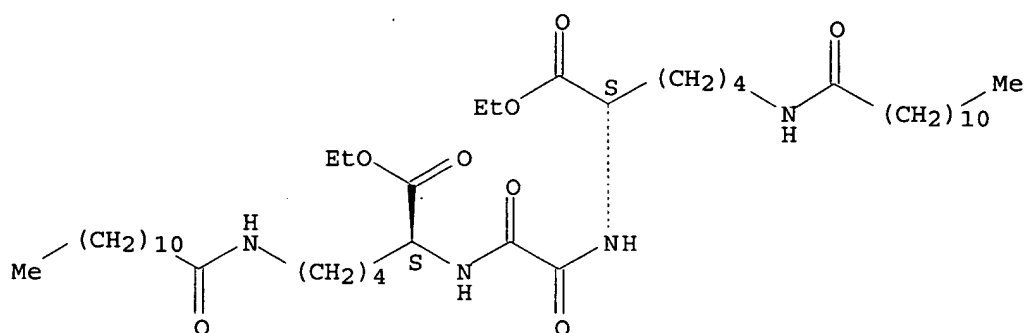
Absolute stereochemistry.



RN 615584-81-1 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

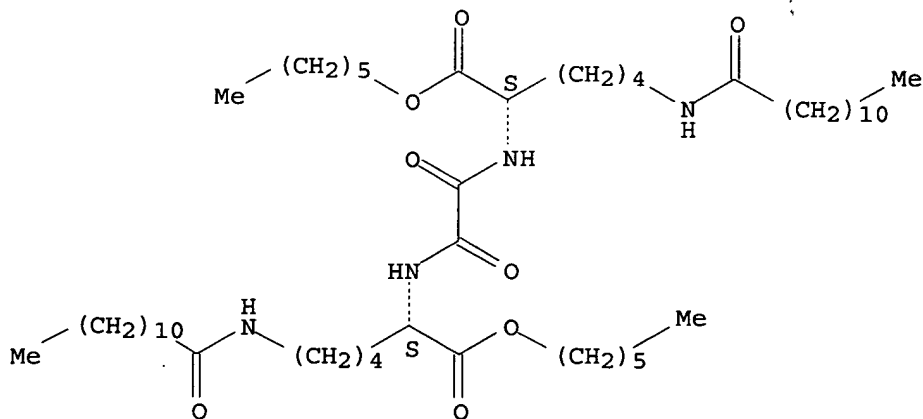
Absolute stereochemistry.



RN 615584-82-2 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, dihexyl ester (9CI) (CA INDEX NAME)

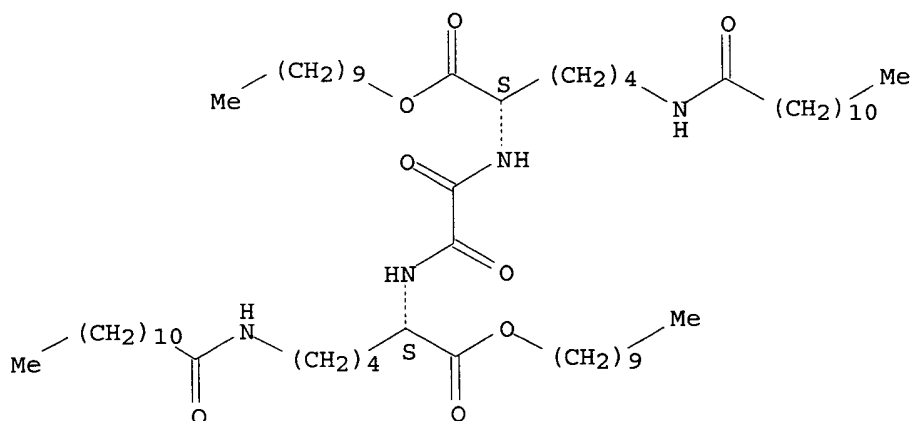
Absolute stereochemistry.



RN 615584-83-3 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didecyl ester (9CI) (CA INDEX NAME)

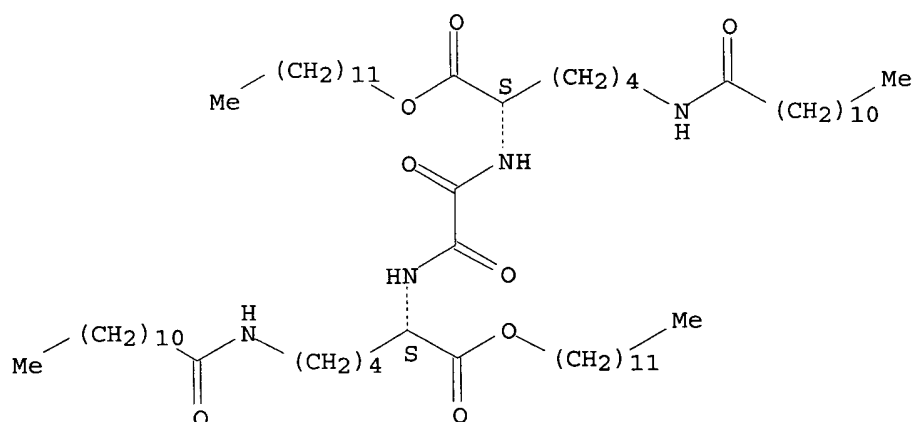
Absolute stereochemistry.



RN 615584-84-4 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didodecyl ester (9CI) (CA INDEX NAME)

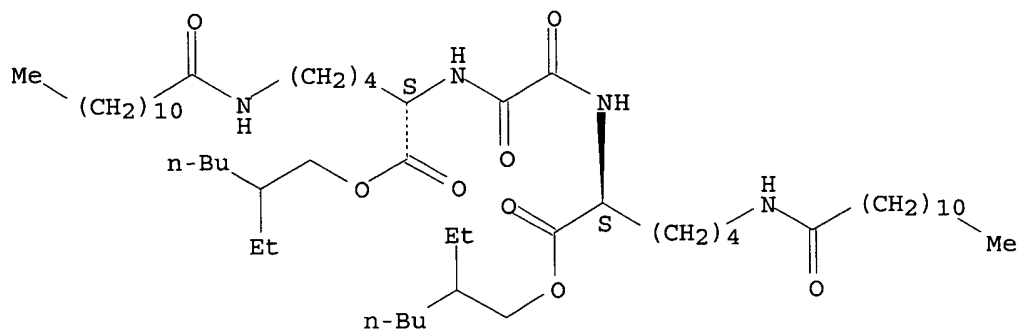
Absolute stereochemistry.



RN 615584-85-5 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 615584-86-6 CAPLUS

ambient temperature Gel and perfumery/cosmetic compns. containing the basic amino acid derivative are also provided. Exemplary derivs. are bis(lauroyl-lysine) derivs.

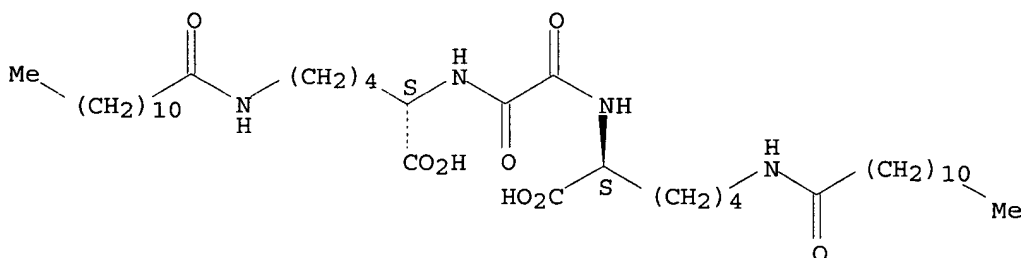
IT 615584-80-0P 615584-85-5P 615584-86-6P
785816-56-0P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of basic amino acid derivs. as gelation agents)

RN 615584-80-0 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)- (9CI)
(CA INDEX NAME)

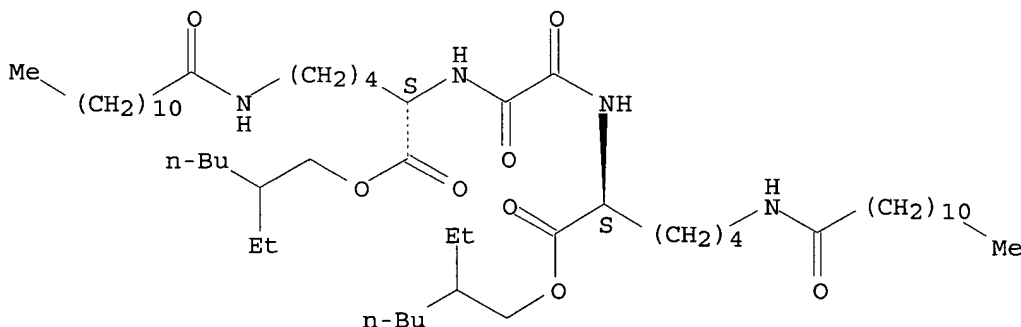
Absolute stereochemistry.



RN 615584-85-5 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)

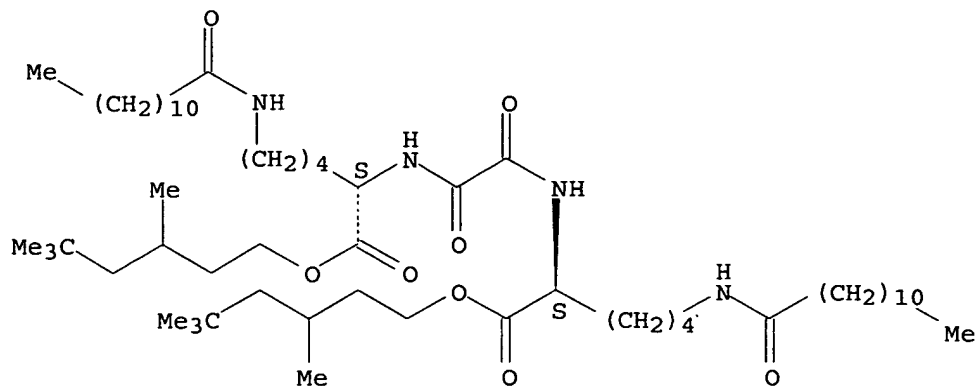
Absolute stereochemistry.



RN 615584-86-6 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(3,5,5-trimethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

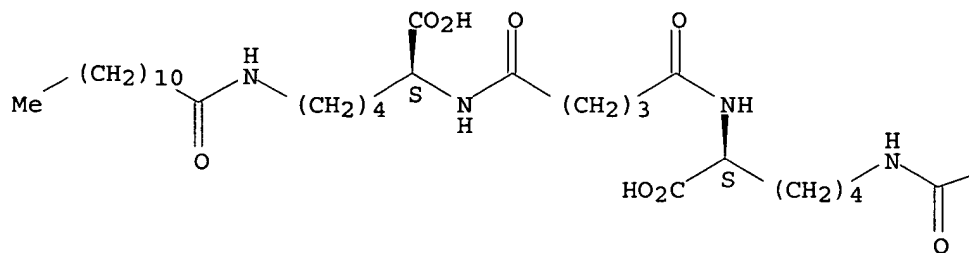


RN 785816-56-0 CAPLUS

CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediy)bis[N6-(1-oxododecyl)-, sodium salt (9CI) (CA INDEX NAME)

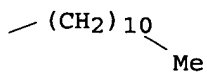
Absolute stereochemistry.

PAGE 1-A



● x Na

PAGE 1-B



IT 658051-86-6

RL: RCT (Reactant); RACT (Reactant or reagent)

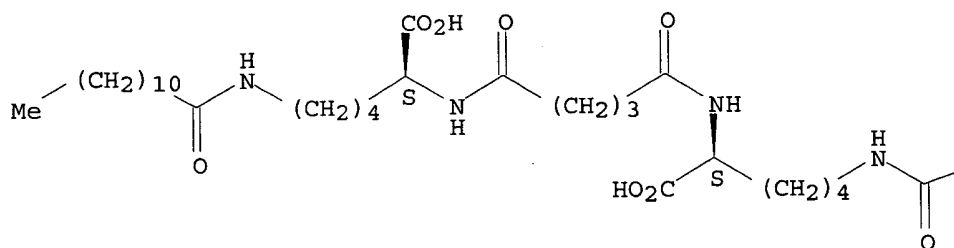
(preparation of basic amino acid derivs. as gelation agents)

RN 658051-86-6 CAPLUS

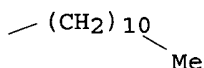
CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediy)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:878000 CAPLUS

DOCUMENT NUMBER: 140:181736

TITLE: L-Lysine based gemini organogelators: their organogelation properties and thermally stable organogels

AUTHOR(S): Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Hanabusa, Kenji

CORPORATE SOURCE: Graduate School of Science and Technology, Shinshu University, Ueda, Nagano, 386-8567, Japan

SOURCE: Organic & Biomolecular Chemistry (2003), 1(22), 4124-4131

CODEN: OBCRAK; ISSN: 1477-0520

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 10 Nov 2003

AB Novel gemini organogelators based on L-lysine, in which two L-lysine derivs. are linked by different alkylene chain lengths through the amide bond, have been simply and effectively synthesized, and their organogelation abilities and thermal stabilities have been investigated. In a series of L-lysine Et ester derivs., the organogelation abilities decreased with increasing alkylene spacer length. In particular, bis(Nε-lauroyl-L-lysine Et ester)oxalyl amide, H23C11CONH(CH2)4CH(CO2Et)NH-COCO-NHCH(CO2Et)(CH2)4NHCOC11H23, is a good organogelator that gels most organic solvents such as alcs., cyclic ethers, aromatic solvents and acetonitrile. Various oxalyl amide derivs. with different alkyl ester groups such as hexyl, decyl, dodecyl, 2-ethyl-1-hexyl and 3,5,5-trimethylhexyl also showed good organogelation abilities. Furthermore, it was found that the cyclohexane gels formed by some oxalyl amide derivs. have a high thermal stability.

IT 615584-80-0P 615584-81-1P 615584-82-2P

615584-83-3P 615584-84-4P 615584-85-5P

615584-86-6P 658051-84-4P 658051-85-5P

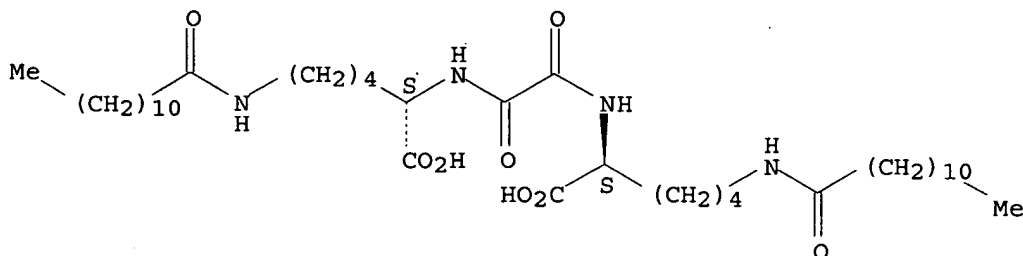
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 658051-95-7P 658051-96-8P 658051-97-9P
 658051-98-0P 658051-99-1P 658052-00-7P
 658052-01-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation, organogelation property and thermal stability of bis-lysine
 amides linked by alkylene chains)

RN 615584-80-0 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)- (9CI)
 (CA INDEX NAME)

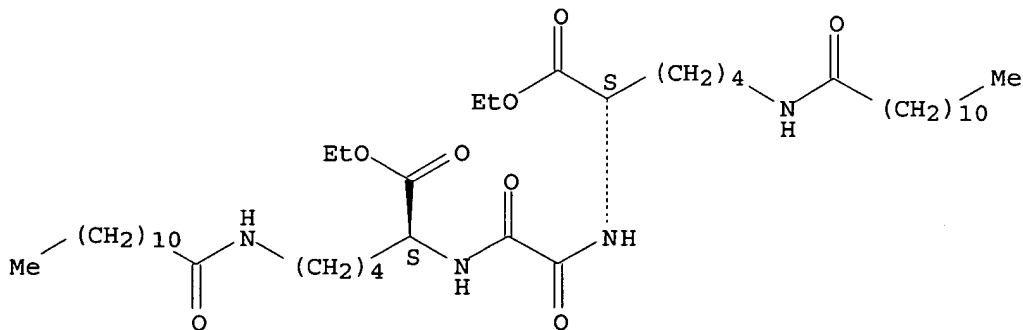
Absolute stereochemistry.



RN 615584-81-1 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, diethyl
 ester (9CI) (CA INDEX NAME)

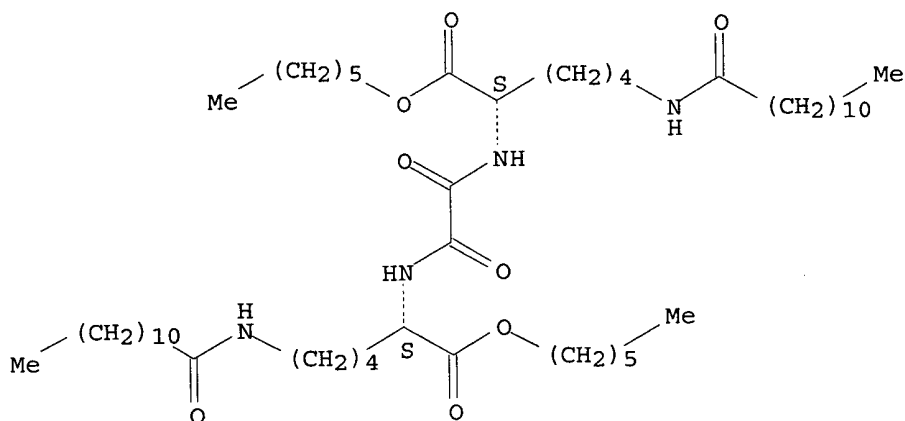
Absolute stereochemistry.



RN 615584-82-2 CAPLUS

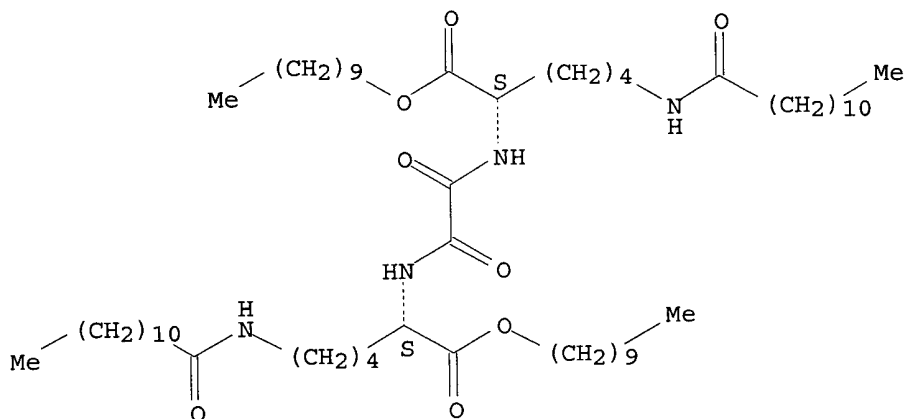
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, dihexyl
 ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



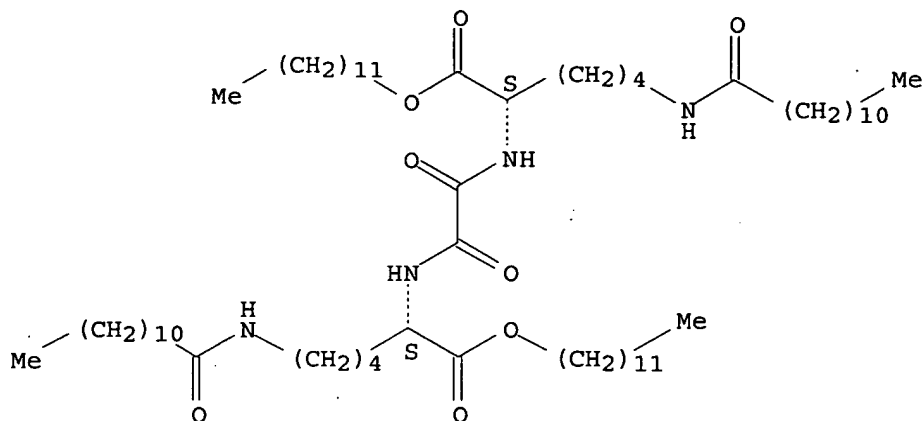
RN 615584-83-3 CAPLUS
 CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didecyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 615584-84-4 CAPLUS
 CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didodecyl ester (9CI) (CA INDEX NAME)

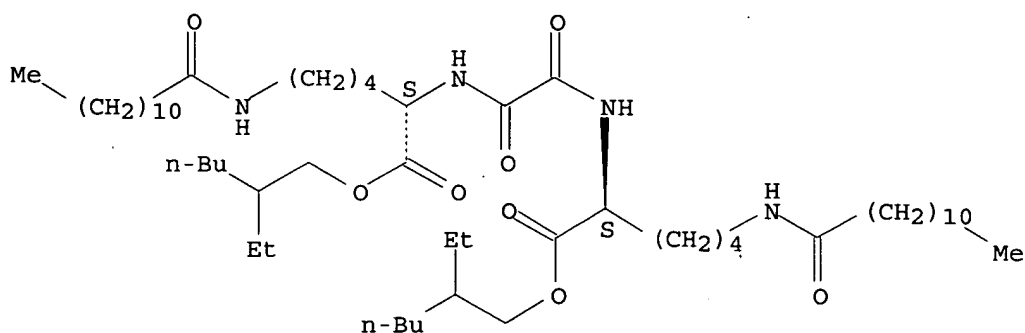
Absolute stereochemistry.



RN 615584-85-5 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)

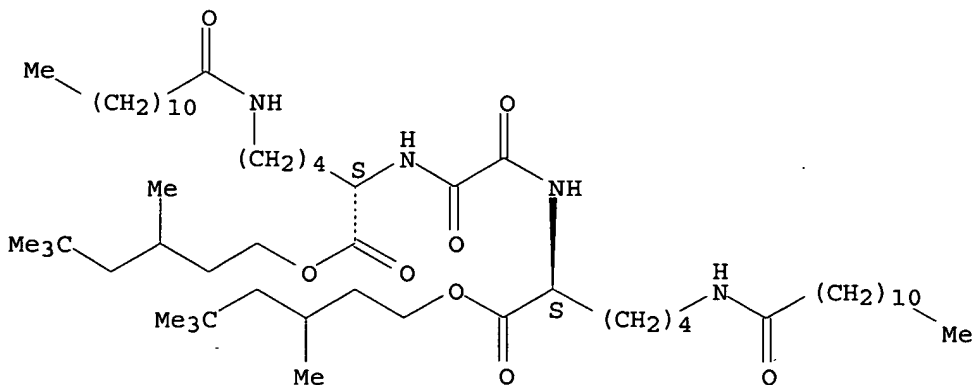
Absolute stereochemistry.



RN 615584-86-6 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(3,5,5-trimethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



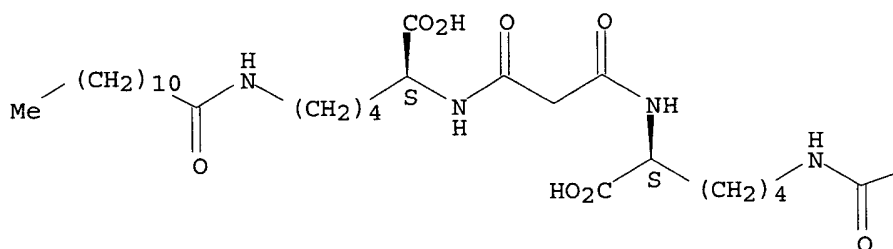
RN 658051-84-4 CAPLUS

CN L-Lysine, N2,N2'-(1,3-dioxo-1,3-propanediyl)bis[N6-(1-oxododecyl)- (9CI)

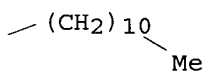
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Absolute stereochemistry.

PAGE 1-A



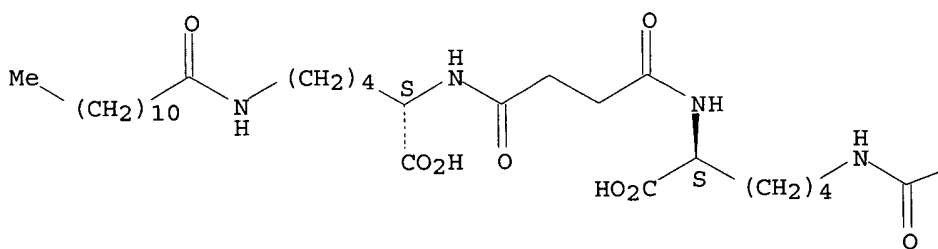
PAGE 1-B



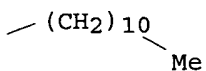
RN 658051-85-5 CAPLUS
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 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



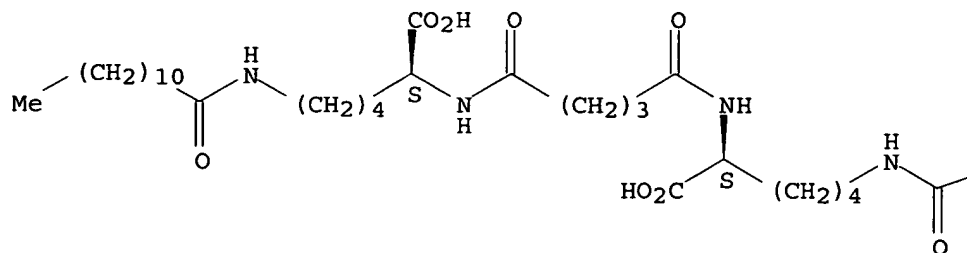
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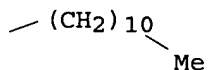
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 CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediy)bis[N6-(1-oxododecyl)]-(9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

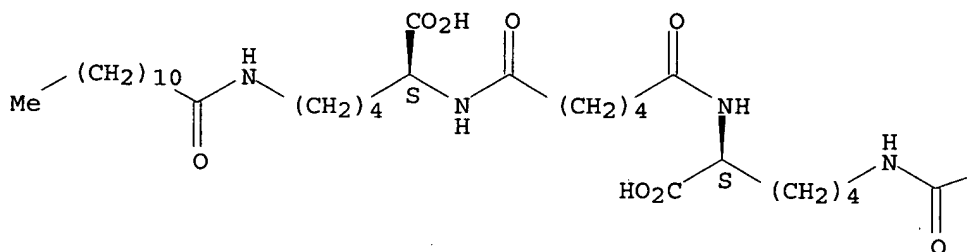


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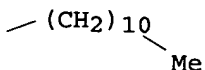
CN L-Lysine, N2,N2'-(1,6-dioxo-1,6-hexanediyl)bis[N6-(1-oxododecyl)] - (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

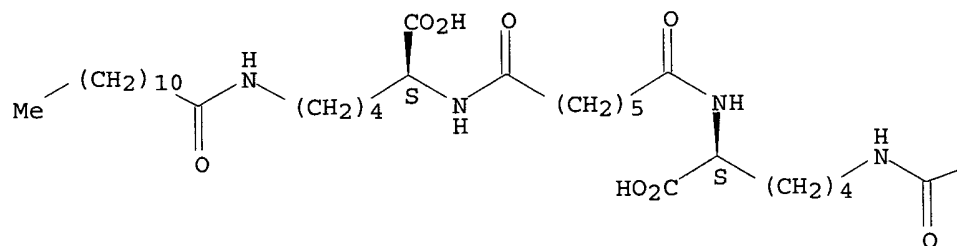


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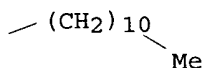
CN L-Lysine, N2,N2'-(1,7-dioxo-1,7-heptanediyl)bis[N6-(1-oxododecyl)] - (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



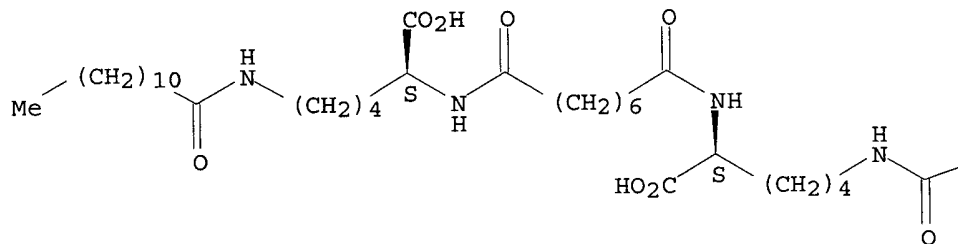
PAGE 1-B



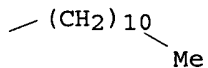
RN 658051-89-9 CAPLUS
 CN L-Lysine, N2,N2'-(1,8-dioxo-1,8-octanediy)bis[N6-(1-oxododecyl)] - (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



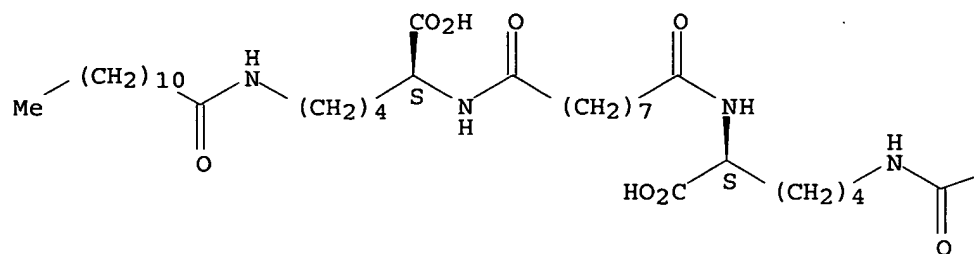
PAGE 1-B



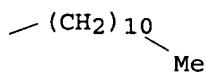
RN 658051-90-2 CAPLUS
 CN L-Lysine, N2,N2'-(1,9-dioxo-1,9-nonanediy)bis[N6-(1-oxododecyl)] - (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

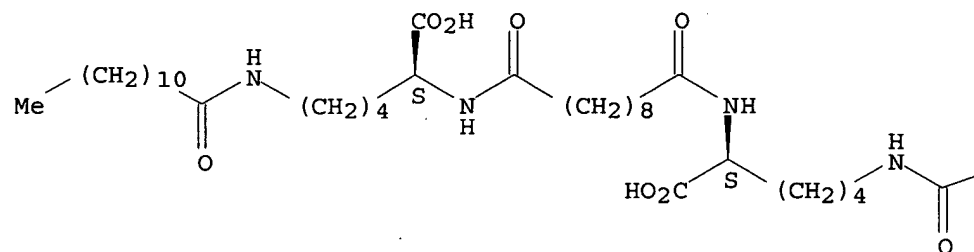


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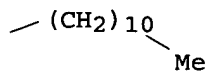
CN L-Lysine, N2,N2'-(1,10-dioxo-1,10-decanediyl)bis [N6-(1-oxododecyl) - (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

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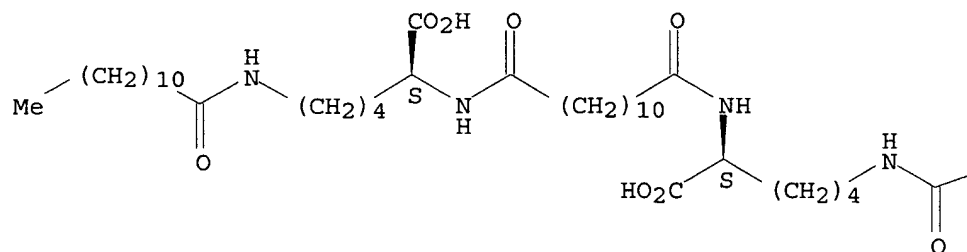


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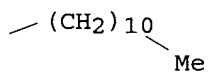
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(9CI) (CA INDEX NAME)

Absolute stereochemistry.

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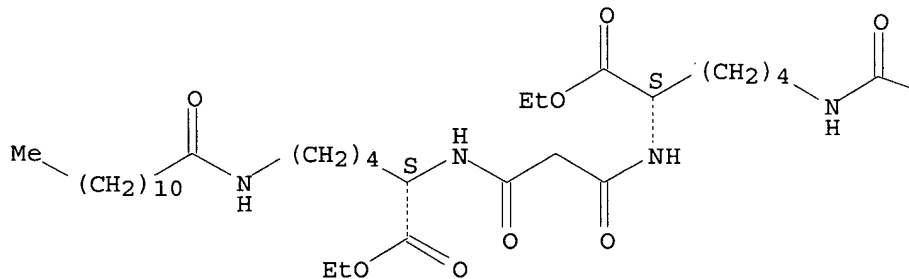


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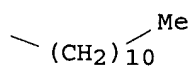
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Absolute stereochemistry.

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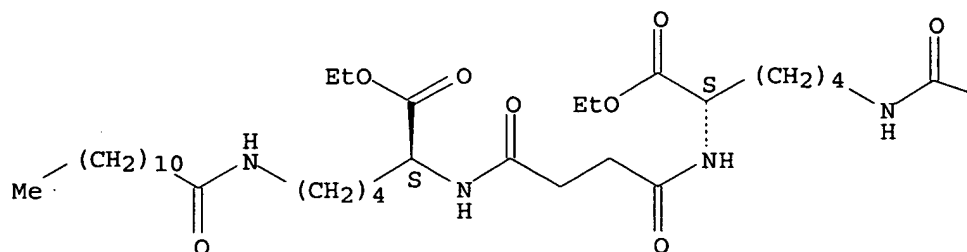


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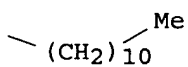
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Absolute stereochemistry.

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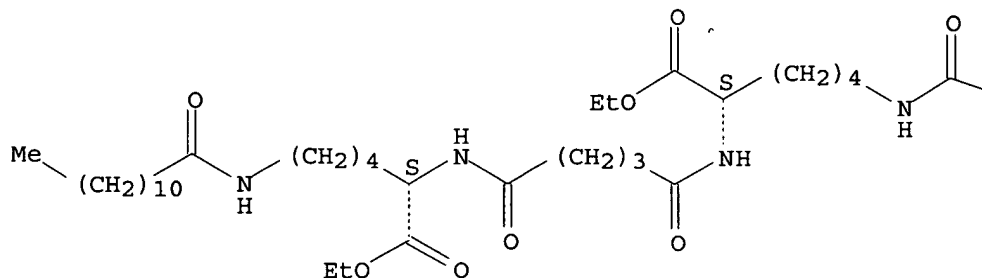


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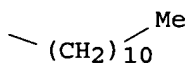
CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediy)bis[N6-(1-oxododecyl)-, diethyl ester (9CI)] (CA INDEX NAME)

Absolute stereochemistry.

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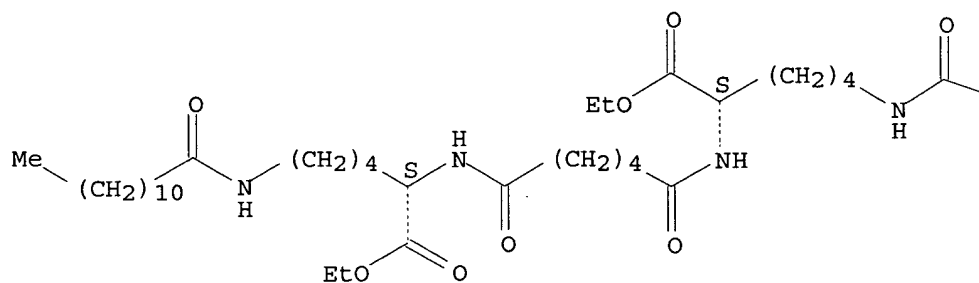


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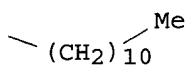
CN L-Lysine, N2,N2'-(1,6-dioxo-1,6-hexanediy)bis[N6-(1-oxododecyl)-, diethyl ester (9CI)] (CA INDEX NAME)

Absolute stereochemistry.

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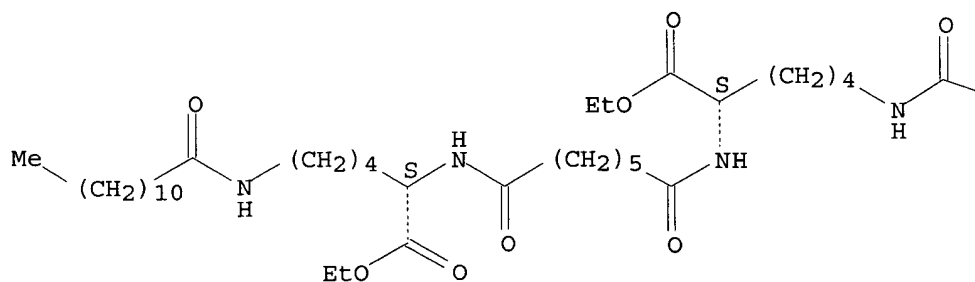


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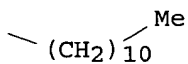
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Absolute stereochemistry.

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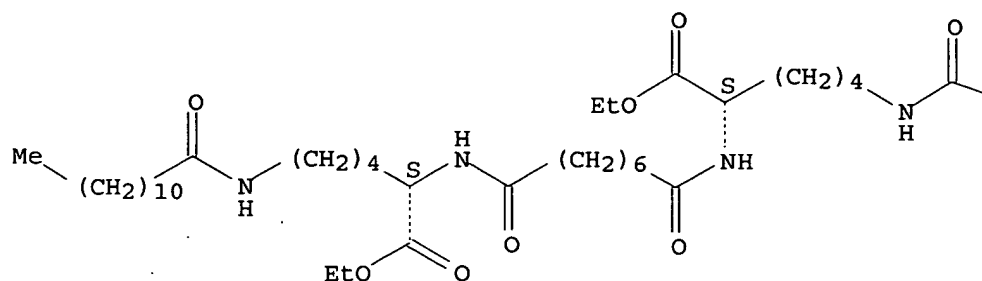


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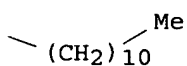
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Absolute stereochemistry.

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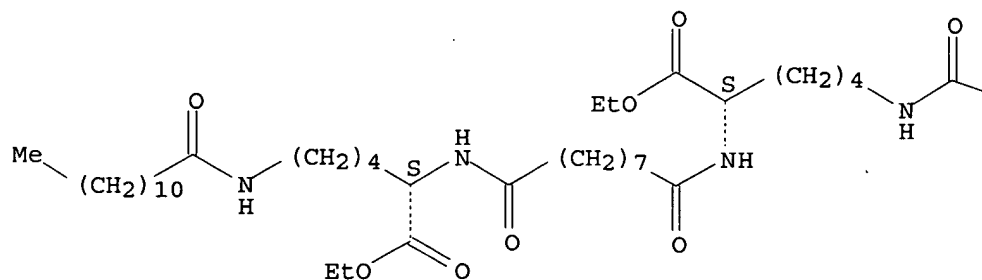
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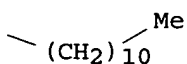
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 CN L-Lysine, N2,N2'-(1,9-dioxo-1,9-nonanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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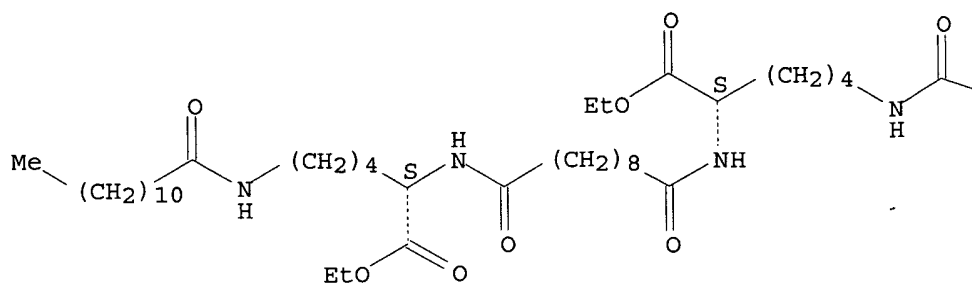
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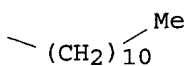
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 CN L-Lysine, N2,N2'-(1,10-dioxo-1,10-decanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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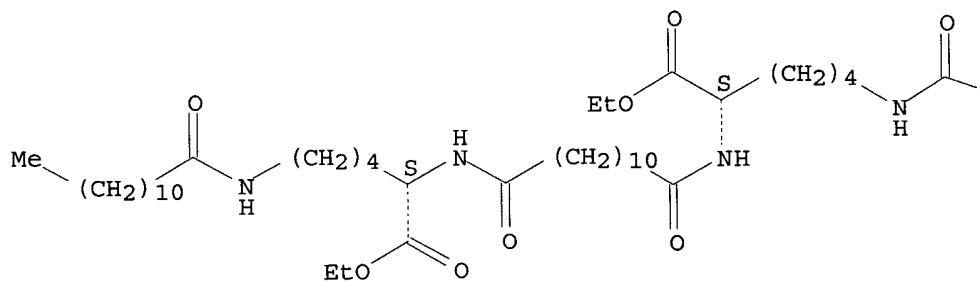
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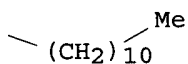
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 diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 4 USPATFULL on STN
 ACCESSION NUMBER: 2004:315136 USPATFULL
 TITLE: Basic amino acid derivatives
 INVENTOR(S): Hanabusa, Kenji, Ueda-shi, JAPAN
 Suzuki, Masahiro, Ueda-shi, JAPAN
 PATENT ASSIGNEE(S): AJINOMOTO CO. INC, Tokyo, JAPAN (non-U.S. corporation)

NUMBER KIND DATE